

NATIONAL UNIVERSITY OF LESOTHO

DEPARTMENT OF ANIMAL SCIENCE

SECOND SEMESTER EXAMINATION 2022/2023

ANS 4507: INFECTIOUS AND NON-INFECTIOUS LIVESTOCK DISEASES

JUNE 2023

MARKS 100

TIME: 3 HOURS

INSTRUCTIONS

- **Answer ALL questions**
 - **Answer each question on a SEPARATE page**
 - **You can start with ANY question, and make sure you number your answers correctly**
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Question 1

Write short notes on:

(20 Marks)

- a. Hypobiosis **(4)**
- b. Peri-parturient rise **(6)**
- c. Epidemiology of Blackleg Disease **(5)**
- d. Pathogenesis on Salmonellosis **(5)**

Question 2

Complete the disease card for Lumpy Skin Disease below. **(20 Marks)**

Animals affected	Spread
Most significant clinical signs	Pathogenesis
Diagnosis	DD
Treatment	Prevention and Control

Question 3

A farmer asked for your advice concerning the fertility of his/ her herd. You examined the bull and found nothing much wrong. You also examined the cows on the farm and found that some were pregnant. You suspected that one of the cows has an infected uterus. The farmer told you that several cows had late-term abortions. **(20 Marks)**

- a. List the different diseases that might cause the condition affecting these cattle. **(8)**
- b. What would confirm your suspicion? **(3)**
- c. What samples must be taken to confirm the diagnosis? **(4)**
- d. While taking samples, what measures should be taken to ensure that the disease does not spread? **(2)**
- e. Describe the methods that can be applied to control the disease. **(3)**

Question 4

- a. With the aid of a diagram, describe the life cycle of a liver fluke in ruminant animals.
(15)
- b. Indicate the signs and symptoms that would be found in animals affected by liver fluke.
(5)

Question 5

- a. Describe the cause, the spread and clinical signs of sheep scab as found in Lesotho
(10)
- b. Describe measures to be used to control sheep scab and explain its economic importance (10)